

## ABSTRACT OF THE DISCLOSURE

A baseband signal phase-compensation technique offsets undesirable phase shifts, or changes in phase shift, introduced in a transmit signal when changing transmit amplifier operating modes. Such mode changes may, for example, entail switching 5 amplifier stages in and out of an amplification signal path. A phase compensator selectively operates on the baseband signal or signals to subtract out an amount of phase shift equal to the amount of phase shift added by switching one or more additional amplifier stages into the amplification signal path. Compensating baseband signals in this manner may be particularly valuable for the reverse link signal of a mobile terminal 10 operating in a wireless communication environment such as CDMA2000. In such environments, abrupt phase shift changes in the transmit signal associated with transmit signal power control are undesirable.